



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Yuri Goldstein et al.

Group Art Unit: 2681

Serial No.: 10/628,943

Examiner:

Filed: 7/29/03

Attorney Docket: PCTEL-020

Title: Pilotless, Wireless, Telecommunications Apparatus, Systems and Methods

I hereby certify that this correspondence is being deposited on this day with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

*David P. Gordon*

*Dec 4, 2003*

David P. Gordon

Date

Honorable Commissioner for Patents  
Alexandria, VA 22313

SUBMITTAL OF DOCUMENTS PURSUANT TO DUTY OF DISCLOSURE

Pursuant to applicant's duty of disclosure 37 CFR Section 1.56, enclosed is a completed form PTOL-1449 as well as copies of the cited documents that relate to the above-referenced patent application. Since this document submittal is being presented prior to the first examination on the merits, no fee is due herewith.

The listed documents are brought to the Examiner's attention because they are known to the applicant and/or the applicant's attorney and may be considered by the Examiner to be material to his/her examination. This listing should not be construed as representation that a search has been made or that no better art exists. No inference should be made that the documents are in fact material merely because they are referenced herein. Moreover, no representation is made that the brief descriptions of the references herein necessarily describe the most material aspects of the references. Further, by this listing, the applicant is not making any admission regarding the relative dates of the invention and listed disclosures.

Respectfully submitted,

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## INFORMATION DISCLOSURE CITATION

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

- |   |  |
|---|--|
| A | <u>Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications in the 5 Ghz Band</u> , IEEE Standard 802.11a, §§ 17.1 through 17.1.2.4, 17.2, 17.3. & 17.5.   |
| B | <u>Standard Air Interface for Fixed Broadband Wireless Access Systems - Media Access Control Modifications and Additional Physical Layer for 2-11 GHz.</u> , IEEE Standard 802.16ab, Part 16, §§ 8.3.5 through 8.3.5.1.5 & 8.3.5.3.4 |
| C | <u>HiperLAN2: Broadband Wireless Communications at 5 Ghz</u> ”, P. Schramm et al., IEEE , Vol. 40, No. 6, June 2002  |
| D | <u>Minimum BER Power Loading for OFDM in Fading Channel</u> , L Goldfeld et al., IEEE Transactions on Communications, Vol.50, N11, 2002  |
| E | <u>Digital Communications</u> , J. Proakis, 4th Edition, McGraw-Hill, 2001, §§ 5.2.9, 6.2 & 14.5   |
| F | <u>Turbo Coding for Fading Channels</u> , B.Vucetic and J. Yuan, Kluwer Academic Publishers, 2001, §8.5.1  |
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